

Title (en)

Alkali-free aluminoborosilicate glasses and their applications

Title (de)

Alkalifreie Aluminoborosilicatgläser und deren Verwendungen

Title (fr)

Verres aluminoborosilicates dépourvus d'alcalins et leurs utilisations

Publication

**EP 1078893 A3 20020123 (DE)**

Application

**EP 00115962 A 20000726**

Priority

DE 19939789 A 19990821

Abstract (en)

[origin: US6417124B1] The invention relates a alkali-free aluminoborosilicate glasses having the following composition (in % by weight, based on oxide): SiO<sub>2</sub> 50-70, B<sub>2</sub>O<sub>3</sub> 0.5-15, Al<sub>2</sub>O<sub>3</sub> 10-25, MgO 0-10, CaO 0-12, SrO 0-12, BaO 0-15, with MgO+CaO+SrO+BaO 8-26, ZnO 0-10, ZrO<sub>2</sub> 0-5, TiO<sub>2</sub> 0-5, SnO<sub>2</sub> 0-2, MoO<sub>3</sub> 0.05-2. The glasses are particularly suitable as substract glasses for display and photovoltaic applications.

IPC 1-7

**C03C 3/091**; **C03C 3/093**

IPC 8 full level

**G02F 1/1333** (2006.01); **C03C 3/091** (2006.01); **C03C 3/093** (2006.01); **C03C 3/095** (2006.01); **C03C 3/097** (2006.01); **C03C 3/102** (2006.01); **C03C 3/11** (2006.01)

CPC (source: EP KR US)

**C03C 3/091** (2013.01 - EP KR US); **C03C 3/093** (2013.01 - EP US)

Citation (search report)

- [X] DE 19601922 A1 19970717 - WATZKE ECKHART DIPL ING [DE]
- [A] EP 0509792 A2 19921021 - COOKSON GROUP PLC [GB]
- [DA] WO 9827019 A1 19980625 - CORNING INC [US]
- [DA] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 06 30 June 1997 (1997-06-30)
- [DA] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10 31 October 1997 (1997-10-31)

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EP1219573A1; EP1118593A3; EP1118594A3; EP1118596A3; EP1118595A3; EP2660213A4; US11407674B2; US6852658B2; EP3613710A4; WO2004076367A1; WO02076899A1; US6671026B2; US6867158B2; US6858552B2; US7727916B2; US6707526B2; US9108879B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6417124 B1 20020709**; AT E291564 T1 20050415; CN 1192982 C 20050316; CN 1285325 A 20010228; DE 19939789 A1 20010222; DE 50009841 D1 20050428; EP 1078893 A2 20010228; EP 1078893 A3 20020123; EP 1078893 B1 20050323; HK 1034953 A1 20011109; JP 2001106546 A 20010417; KR 20010070025 A 20010725; TW 499403 B 20020821

DOCDB simple family (application)

**US 64256100 A 20000821**; AT 00115962 T 20000726; CN 00124048 A 20000821; DE 19939789 A 19990821; DE 50009841 T 20000726; EP 00115962 A 20000726; HK 01105541 A 20010809; JP 2000239869 A 20000808; KR 20000048219 A 20000821; TW 89116905 A 20000821